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PROVISIONAL APPLICATION COVER SHEET [37 CFR 1.53(c)]

This is a request for filing a PROVISIONAL APPLICATION under 35 U.S.C. §111(b) and 37 CFR 1.51(a)(2)

Date : October 23, 2002
Docket No. : 49270/CM/R566
EXPRESS MAIL NO. EL904746614US

Mail to: BOX PROVISIONAL PATENT APPLICATION

INVENTOR(S)/APPLICANT(S) (LAST NAME, FIRST NAME, MIDDLE INITIAL, RESIDENCE (CITY AND EITHER STATE OR FOREIGN COUNTRY)

LINES, Thomas C., 13 rue Des Champs, L 5762 Hassel, Luxembourg Grand Duchy, Europe

_____ Additional inventors are being named on separately numbered sheets attached hereto.

TITLE OF THE INVENTION (280 characters max)

ANTIOXIDANT COMPOUND

ENCLOSED APPLICATION PARTS

4 Specification (number of pages)
0 Drawings (number of sheets)
_____ Assignment
_____ Other (specify):

FEE AND METHOD OF PAYMENT

X A check for the filing fee of $160.00 is enclosed.
The Commissioner is hereby authorized to charge any fees under 37 CFR 1.16 and 1.17 which may be required by this filing to Deposit Account No. 03-1728. Please show our docket number with any charge or credit to our Deposit Account. **A copy of this letter is enclosed.**

_____ No filing fee enclosed.

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

X No _____ Yes, the name of the U.S. Government agency and the Government contract number are:

Please address all correspondence to **CHRISTIE, PARKER & HALE, LLP, P.O. Box 7068, Pasadena, CA 91109-7068, U.S.A.**

Respectfully submitted,
CHRISTIE, PARKER & HALE, LLP

By ______________________
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PATENT TRADEMARK OFFICE

49270/CM/R566

ANTIOXIDANT COMPOUND

An antioxidant compound also known as an FRS Free Radical Scavenger compound is provided.

A FRS compound is an antioxidant health compound which relies on synergies between the Bioflavonoid Quercetin and Vitamins B1,B2,B3,B6 and B12 as well as Vitamin C, Vitamin E and Caffeine and Epigallocatechin Gallate, (which is part of a concentrated Green Tea Extract which includes Epicatechin, Epicatechin Gallate and Epigallocatechin as well as Polyphenon E) in order to deliver a potent antioxidant effect in animals and humans. The Quercetin in the compound can be either naturally extracted from plants and/or vegetables and/or fruits by well known methods or can be synthesised by well known methods.

The inventive compound has a very bitter and unpalatable taste and needs to be sweetened prior to or during the process of being added to foodstuffs and/or drinks. The sweetener can be HFCS (high fructose corn syrup) and/or natural cane or beet sugars and or pectins and or the artificial sweetener sucralose.

The inventive compound is in an exemplary embodiment in liquid form but may also be in solid form such a powder form. The exemplary embodiment compound can be mixed with various fruit juices and/or purified water and/or other consumable liquid products such as teas and/ or sodas and can be added to foodstuffs and various drinks as a component in the manufacturing process.

The exemplary embodiment compound is a dispersion which when added to consumable liquids is not totally soluble. It is not totally soluble in water.

The exemplary embodiment compound has the following component ranges per liter of liquid as finished ready to drink product for human consumption (mg = milligrams, iu = international units)

Component	**minimum**	**maximum**
Quercetin	50 mg	1000 mg
Vitamin B1	0,10 mg	30 mg
Vitamin B2	0,10 mg	85 mg
Vitamin B3	0,10 mg	1000 mg
Vitamin B6	0,10 mg	100 mg
Vitamin B12	6 micrograms	120 micrograms
Vitamin C	60 mg	1200 mg
Vitamin E	3 iu	1000 iu
Caffeine	50 mg	1000 mg

All above are mixed together with

Green Tea Extract containing

Epigallocatechin Gallate	minimum 10 mg maximum 500 mg
Epicatechin	minimum 10 mg maximum 500 mg
Epicatechin Gallate	minimum 10 mg maximum 500 mg
Epigallocatechin	minimum 10 mg maximum 500 mg
Polyphenon E	minimum 10 mg maximum 500 mg

Another exemplary embodiment compound has the following formulation:

Quercetin	50 mg
Vitamin B1	3,75 mg
Vitamin B2	4,25 mg
Vitamin B3	50 mg
Vitamin B6	5 mg
Vitamin B12	15 micrograms
Vitamin C	150 mg
Vitamin E	7,5 iu
Caffeine	200 mg

All above are mixed together with

Green Tea Extract containing

Epigallocatechin Gallate	30 mg
Epicatechin	35 mg
Epicatechin Gallate	90 mg
Epigallocatechin	90 mg
Polyphenon E	30mg

Through testing including testing in humans and animals, Applicant has discovered the following benefits provided by the exemplary embodiment compound as follows:

1. Applicant has discovered that the exemplary compound stimulates metabolism in animals and humans by exploiting the synergies between the caffeine and B-Vitamin components of the compound.

2. Applicant has discovered that the exemplary compound stimulates blood flow by the interaction between the caffeine and Quercetin components. In addition, applicant has discovered that the exemplary compound thins the blood and can possibly act as a reducer of incidents of DVT (Deep Vein Thrombosis) which often occurs in humans on long haul flights and during prolonged periods of seating.

3. Applicant has discovered that the exemplary compound uses the interaction between vitamins C and E and Querceting in order to scavenge (i.e., eat) free radicals (i.e., free running oxygen molecules) in animals and humans and to bond with Oxygen free radicals in the body so as to neutralize the Oxygen free radicals to prevent and/or reduce free radical damage and the consequent onset of free radical related diseases such as cancer, hear disease and diabetes.

4. Quercetin helps to conserve and lengthen the effects of vitamins C and E in the body and together with the B-Vitamins, Caffeine and Epigallocatechin Gallate helps to accelerate metabolism so allowing the body to burn fat at a faster rate.

5. Quercetin improves capillary permeability and acts together with Vitamin C and E to strengthen capillary cells.

6. Applicant has discovered that the exemplary compound contributes to increased alertness and memory amplification in animals and humans which applicant believes occurs through the synergy of its components.

7. Applicant has discovered that the exemplary embodiment compound can assist in collagen formation, is an antihistamine, is an anti-inflammatory agent, exhibits strong antioxidant action, can assist in protecting against cataracts, exhibits anti ulcer and gastroprotective effects.

8. Applicant has also discovered that the exemplary embodiment compound promotes the elevation of norephephrine levels consequently increasing energy expenditure and thermogenesis which can assist in weight control. This is especially true when the compound is artificially sweetened and used as a component of drinks which contain no added sugar.

9. Furthermore, applicant has discovered that the exemplary embodiment compound exhibits both allergic mediator release activity and selectively inhibits the biosynthesis of proinflammatory arachidonic acid metabolites and thus has implications as an anti inflammatory and antiallergic agent.

10. The exemplary embodiment compound has been shown in informal human trials to elevate mood.

11. Applicant has discovered that the exemplary embodiment compound helps the bowel function in animals and humans.

12. Applicant believes that the exemplary embodiment compound has anti cancer properties.

13. Furthermore, applicant believes that the exemplary embodiment, has properties that prevent platelet aggregation, protect against blood clotting and together with strong antioxidant action can protect the heart from damage and promote cardiovascular health.

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